#### **STIC Biotechnology Systems Branch**

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/559, 639
Source:	1FWP
Date Processed by STIC:	12/16/05
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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
  U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,
  Alexandria, VA 22314

Revised 01/24/05

## Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/559, 639
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARI
IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line <b>not exceed</b> 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If <b>intentional</b> , please insert the following lines for <b>each</b> skipped sequence. <210> sequence id number <400> sequence id number 000
(NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
Response	Per 1.823 of Sequence Rules, the only <b>valid</b> <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is <b>required</b> when <213> response is Unknown or is Artificial Sequence
Use of <220>	Use of <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
"bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

RAW SEQUENCE LISTING DATE: 12/16/2005
PATENT APPLICATION: US/10/559,639 TIME: 15:46:54

Input Set : D:\Sequence\_Listings\_16033US\_ST25\_txt.TXT

Output Set: N:\CRF4\12162005\J559639.raw

```
3 <110> APPLICANT: Ben-Yehuda, Dina
             Ashhab, Yaqoub
             Nachmias, Boaz
      7 <120> TITLE OF INVENTION: Livin-derived peptides, compositions and uses thereof
     9 <130> FILE REFERENCE: 16033/US/03
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/559,639
C--> 11 <141> CURRENT FILING DATE: 2005-12-02
                                                                 Does Not Comply
     11 <150> PRIOR APPLICATION NUMBER: IL 156263
                                                                 Corrected Diskette Needed
     12 <151> PRIOR FILING DATE: 2003-06-02
     14 <150> PRIOR APPLICATION NUMBER: PCT/IL2004/000461
     15 <151> PRIOR FILING DATE: 2004-05-31
    17 <160> NUMBER OF SEQ ID NOS: 11
     19 <170> SOFTWARE: PatentIn version 3.3
    21 <210> SEQ ID NO: 1
    22 <211> LENGTH: 246
    23 <212> TYPE: PRT
    24 <213> ORGANISM: Homo sapiens
    26 <400> SEQUENCE: 1
    28 Gly Gln Ile Leu Gly Gln Leu Arg Pro Leu Thr Glu Glu Glu Glu Glu
    32 Glu Gly Ala Gly Ala Thr Leu Ser Arg Gly Pro Ala Phe Pro Gly Met
                    20
    36 Gly Ser Glu Glu Leu Arg Leu Ala Ser Phe Tyr Asp Trp Pro Leu Thr
               35
                                    40
                                                        45
    40 Ala Glu Val Pro Pro Glu Leu Leu Ala Ala Gly Phe Phe His Thr
                                55
     44 Gly His Gln Asp Lys Val Arg Cys Phe Phe Cys Tyr Gly Gly Leu Gln
                            70
                                                75
     48 Ser Trp Lys Arg Gly Asp Asp Pro Trp Thr Glu His Ala Lys Trp Phe
     49
    52 Pro Ser Cys Gln Phe Leu Leu Arg Ser Lys Gly Arg Asp Phe Val His
    53
                    100
                                        105
                                                            110
    56 Ser Val Gln Glu Thr His Ser Gln Leu Leu Gly Ser Trp Asp Pro Trp
                                    120
    60 Glu Glu Pro Glu Asp Ala Ala Pro Val Ala Pro Ser Val Pro Ala Ser
                                135
                                                    140
    64 Gly Tyr Pro Glu Leu Pro Thr Pro Arg Arg Glu Val Gln Ser Glu Ser
                            150
                                                155
    68 Ala Gln Glu Pro Gly Gly Val Ser Pro Ala Glu Ala Gln Arg Ala Trp
                        165
                                            170
    72 Trp Val Leu Glu Pro Pro Gly Ala Arg Asp Val Glu Ala Gln Leu Arg
     76 Arg Leu Gln Glu Glu Arg Thr Cys Lys Val Cys Leu Asp Arg Ala Val
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Input Set : D:\Sequence\_Listings\_16033US\_ST25\_txt.TXT

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77
                               200
           195
80 Ser Ile Val Phe Val Pro Cys Gly His Leu Val Cys Ala Glu Cys Ala
                           215
                                               220
84 Pro Gly Leu Gln Leu Cys Pro Ile Cys Arg Ala Pro Val Arg Ser Arg
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88 Val Arg Thr Phe Leu Ser
                   245
89
92 <210> SEQ ID NO: 2
93 <211> LENGTH: 228
94 <212> TYPE: PRT
95 <213> ORGANISM: Homo sapiens
97 <400> SEQUENCE: 2
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103 Glu Gly Ala Gly Ala Thr Leu Ser Arg Gly Pro Ala Phe Pro Gly Met
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107 Gly Ser Glu Glu Leu Arg Leu Ala Ser Phe Tyr Asp Trp Pro Leu Thr
            35
                                40
111 Ala Glu Val Pro Pro Glu Leu Leu Ala Ala Gly Phe Phe His Thr
                            55
115 Gly His Gln Asp Lys Val Arg Cys Phe Phe Cys Tyr Gly Gly Leu Gln
                        70
                                            75
119 Ser Trp Lys Arg Gly Asp Asp Pro Trp Thr Glu His Ala Lys Trp Phe
                    85
123 Pro Ser Cys Gln Phe Leu Leu Arg Ser Lys Gly Arg Asp Phe Val His
124
                100
                                    105
127 Ser Val Gln Glu Thr His Ser Gln Leu Leu Gly Ser Trp Asp Pro Trp
128
            115
                                120
                                                     125
131 Glu Glu Pro Glu Asp Ala Ala Pro Val Ala Pro Ser Val Pro Ala Ser
                            135
                                                 140
135 Gly Tyr Pro Glu Leu Pro Thr Pro Arg Arg Glu Val Gln Ser Glu Ser
                        150
                                            155
139 Ala Gln Glu Pro Gly Ala Arg Asp Val Glu Ala Gln Leu Arg Arg Leu
                    165
                                        170
143 Gln Glu Glu Arg Thr Cys Lys Val Cys Leu Asp Arg Ala Val Ser Ile
                180
                                    185
147 Val Phe Val Pro Cys Gly His Leu Val Cys Ala Glu Cys Ala Pro Gly
           195
                                200
                                                    205
151 Leu Gln Leu Cys Pro Ile Cys Arg Ala Pro Val Arg Ser Arg Val Arg
152
        210
                            215
155 Thr Phe Leu Ser
156 225
159 <210> SEO ID NO: 3
160 <211> LENGTH: 298
161 <212> TYPE: PRT
162 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 3
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167 1
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RAW SEQUENCE LISTING DATE: 12/16/2005
PATENT APPLICATION: US/10/559,639 TIME: 15:46:54

Input Set : D:\Sequence\_Listings\_16033US\_ST25\_txt.TXT

Output Set: N:\CRF4\12162005\J559639.raw

170 Ser His Trp Ala Ala Gly Asp Gly Pro Thr Gln Glu Arg Cys Gly Pro 174 Arg Ser Leu Gly Ser Pro Val Leu Gly Leu Asp Thr Cys Arg Ala Trp 178 Asp His Val Asp Gly Gln Ile Leu Gly Gln Leu Arg Pro Leu Thr Glu 55 182 Glu Glu Glu Glu Gly Ala Gly Ala Thr Leu Ser Arg Gly Pro Ala 70 186 Phe Pro Gly Met Gly Ser Glu Glu Leu Arg Leu Ala Ser Phe Tyr Asp 90 190 Trp Pro Leu Thr Ala Glu Val Pro Pro Glu Leu Leu Ala Ala Gly 191 105 194 Phe Phe His Thr Gly His Gln Asp Lys Val Arg Cys Phe Phe Cys Tyr 115 120 198 Gly Gly Leu Gln Ser Trp Lys Arg Gly Asp Asp Pro Trp Thr Glu His 135 202 Ala Lys Trp Phe Pro Ser Cys Gln Phe Leu Leu Arg Ser Lys Gly Arg 150 155 206 Asp Phe Val His Ser Val Gln Glu Thr His Ser Gln Leu Leu Gly Ser 170 165 210 Trp Asp Pro Trp Glu Glu Pro Glu Asp Ala Ala Pro Val Ala Pro Ser 180 185 214 Val Pro Ala Ser Gly Tyr Pro Glu Leu Pro Thr Pro Arg Arg Glu Val 200 195 218 Gln Ser Glu Ser Ala Gln Glu Pro Gly Gly Val Ser Pro Ala Glu Ala 219 215 222 Gln Arg Ala Trp Trp Val Leu Glu Pro Pro Gly Ala Arg Asp Val Glu 230 235 226 Ala Gln Leu Arg Arg Leu Gln Glu Glu Arg Thr Cys Lys Val Cys Leu 245 250 230 Asp Arg Ala Val Ser Ile Val Phe Val Pro Cys Gly His Leu Val Cys 260 265 234 Ala Glu Cys Ala Pro Gly Leu Gln Leu Cys Pro Ile Cys Arg Ala Pro 275 280 238 Val Arg Ser Arg Val Arg Thr Phe Leu Ser 290 239 295 242 <210> SEQ ID NO: 4 243 <211> LENGTH: 280 244 <212> TYPE: PRT 245 <213> ORGANISM: Homo sapiens 247 <400> SEQUENCE: 4 249 Met Gly Pro Lys Asp Ser Ala Lys Cys Leu His Arq Gly Pro Gln Pro 250 1 253 Ser His Trp Ala Ala Gly Asp Gly Pro Thr Gln Glu Arg Cys Gly Pro 25 257 Arg Ser Leu Gly Ser Pro Val Leu Gly Leu Asp Thr Cys Arg Ala Trp 35 40 261 Asp His Val Asp Gly Gln Ile Leu Gly Gln Leu Arg Pro Leu Thr Glu 262

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Output Set: N:\CRF4\12162005\J559639.raw

```
265 Glu Glu Glu Glu Gly Ala Gly Ala Thr Leu Ser Arg Gly Pro Ala
269 Phe Pro Gly Met Gly Ser Glu Glu Leu Arg Leu Ala Ser Phe Tyr Asp
                                        90
273 Trp Pro Leu Thr Ala Glu Val Pro Pro Glu Leu Leu Ala Ala Gly
274
                100
                                    105
277 Phe Phe His Thr Gly His Gln Asp Lys Val Arg Cys Phe Phe Cys Tyr
           115
                                120
281 Gly Gly Leu Gln Ser Trp Lys Arg Gly Asp Asp Pro Trp Thr Glu His
        130
                            135
                                                140
285 Ala Lys Trp Phe Pro Ser Cys Gln Phe Leu Leu Arg Ser Lys Gly Arg
289 Asp Phe Val His Ser Val Gln Glu Thr His Ser Gln Leu Leu Gly Ser
                                        170
                                                            175
                    165
293 Trp Asp Pro Trp Glu Glu Pro Glu Asp Ala Ala Pro Val Ala Pro Ser
                180
                                    185
297 Val Pro Ala Ser Gly Tyr Pro Glu Leu Pro Thr Pro Arg Arg Glu Val
298
    . 195
                                200
301 Gln Ser Glu Ser Ala Gln Glu Pro Gly Ala Arg Asp Val Glu Ala Gln
302
       210
                            215
305 Leu Arg Arg Leu Gln Glu Glu Arg Thr Cys Lys Val Cys Leu Asp Arg
306 225
                        230
                                            235
309 Ala Val Ser Ile Val Phe Val Pro Cys Gly His Leu Val Cys Ala Glu
                    245
                                        250
313 Cys Ala Pro Gly Leu Gln Leu Cys Pro Ile Cys Arg Ala Pro Val Arg
314
                260
                                    265
317 Ser Arg Val Arg Thr Phe Leu Ser
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322 <211> LENGTH: 27
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Primer for site-directed mutagenesis
329 <400> SEQUENCE: 5
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333 <210> SEQ ID NO: 6
334 <211> LENGTH: 24
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
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339 <223> OTHER INFORMATION: Primer for site-directed mutagenesis
341 <400> SEOUENCE: 6
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346 <211> LENGTH: 18
347 <212> TYPE: DNA
348 <213> ORGANISM: Artificial Sequence;
350 <220> FEATURE:
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**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/559,639**DATE: 12/16/2005

TIME: 15:46:54

Input Set : D:\Sequence\_Listings\_16033US\_ST25\_txt.TXT

Output Set: N:\CRF4\12162005\J559639.raw

351 <223> OTHER INFORMATION: Mega-primer to introduce mutation D52E 353 <400> SEQUENCE: 7 354 cgtggaaggg cagatcct 18 357 <210> SEQ ID NO: 8 358 <211> LENGTH: 19 359 <212> TYPE: DNA 360 <213> ORGANISM: Artificial Sequence 362 <220> FEATURE: 363 <223> OTHER INFORMATION: Mega-primer to introduce mutation D238E 365 <400> SEQUENCE: 8 19 366 ccagggaagt agaggcgca 369 <210> SEQ ID NO: 9 370 <211> LENGTH: 41 371 <212> TYPE: DNA 372 <213> ORGANISM: Artificial Sequence 374 <220> FEATURE: 375 <223> OTHER INFORMATION: Primer to construct cleavage fragment 377 <400> SEQUENCE: 9 378 ggggaattca gtgttccctc catggggcag atcctgggcc a 41 381 <210> SEQ ID NO: 10 Invalid Response.

What is the Sence of What is the Sence of Pls see Genetic Material? Pls see 1916m # 11 cm 26 Sheet.

Ferror Semmany Sheet. 382 <211> LENGTH: 26 383 <212> TYPE: DNA 384 <213> ORGANISM: Artificial Sequence 386 <220> FEATURE: 387 <223> OTHER INFORMATION: Livin-Exp-F 389 <400> SEQUENCE: 10 390 tgttggatcc atgggaccta aagaca 393 <210> SEQ ID NO: 11 394 <211> LENGTH: 27 395 <212> TYPE: DNA 396 <213> ORGANISM: Artificial Sequence 398 <220> FEATURE: 399 <223> OTHER INFORMATION: Livin-Exp-R 401 <400> SEQUENCE: 11 27 402 ggcaaagctt ctaggacagg aaggtgc

VERIFICATION SUMMARYDATE: 12/16/2005PATENT APPLICATION: US/10/559,639TIME: 15:46:55

Input Set : D:\Sequence\_Listings\_16033US\_ST25\_txt.TXT

Output Set: N:\CRF4\12162005\J559639.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date